

## ABSTRACT

### ANALYSIS OF A REGULATORY GENETIC NETWORK OF A CELL

A regulator genetic network of a cell is analyzed using a causal network after predefining a gene expression rate for a selected gene of the regulatory genetic network. The causal network is used to generate a resultant gene expression pattern relating to the genetic network for the predefined gene expression rate. The generated resultant gene expression pattern is subsequently compared with a predefined gene expression pattern of the regulatory genetic network.